## ISSUE SLIP STAPLE AREA (for additional cross references) DATE POSITION ID NO. INITIALS **FEE DETERMINATION** O.I.P.E. CLASSIFIER **FORMALITY REVIEW RESPONSE FORMALITY REVIEW**

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
| = | Allowed                    | 1 | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

|             | Cli                                   | aim      | _            |                |              |                    | Da   | te           |          |  |               |  | 1     | Cli        | aim      | _        |              |               |              | Da   | te           |              |          |          |
|-------------|---------------------------------------|----------|--------------|----------------|--------------|--------------------|--|--------------|----------|--|---------------|--|-------|------------|----------|----------|--------------|---------------|--------------|--|--------------|--------------|----------|----------|
|             | ۳                                     | <u> </u> | -            | 1~             | T            | П                  | <u> </u>   | Ť            | Г        | _  | Г             | П  | 1     | ۳          | Ι_       | -        | <u> </u>     | _             | Г—           | T-   | Ī            | Г            | Г        |          |
|             | Final                                 | Driginal | 110          | 14/03          |              |                    |  |              |          |  |               |  |       | Final      | Original |          |              |               |              |  |              |              |          |          |
|             | <u>;</u> =                            | Ü        | ۲,           |                | ╁            | $\vdash$           | <del>                                     </del> | $\vdash$     | $\vdash$ | ├-   | -             | $\vdash$                                 | i     | ۳          | 51       | $\vdash$ | <del> </del> | <del> -</del> | -            | <del> -</del>                                    | -            | -            | -        | 1        |
| . :         | H                                     | 2        | ╁            | <del>ľ.</del>  | ╁            | ⊢                  | $\vdash$   | ╁            | ╁        | ╁  | ⊢             | ┢  | ł     | ├          | 52       | H        | ┢┈           | $\vdash$      | $\vdash$     |  | $\vdash$     |              |          | H        |
| /           | -                                     | 3        | Н            | ╁              | ┢            | ┢                  | ┢  | H            | ╁╌       | ├  | -             | ┝  | 1     | $\vdash$   | 53       | $\vdash$ | $\vdash$     | $\vdash$      | $\vdash$     |  | $\vdash$     |              |          | -        |
|             | ⊢                                     | 4        | ╫            | ╁┼             | ├-           | ┢                  | -  | ╫─           | ├-       | ┢  | -             | -  | 1     | ⊢          | 54       | -        | -            | -             |              | l-   | -            | -            |          | -        |
|             | 一                                     | 5        | H            | H              | ┢            | -                  | 1  | ┢╌           | -        | ╫╌   | ⊢             | ┢╌                                       | ł     | H          | 55       | 1        |              | -             |              | <del> </del>                                     | -            | -            |          | ┝        |
|             | $\vdash$                              | 6        | 11           | H              | $\vdash$     | ┢                  | H  | ┢            | $\vdash$ | ╁  | ┢             | ┢  | ĺ     | 一          | 56       | ┢        |              |               | l            |  | Н            | ┢            | H        | H        |
|             | -                                     | 7        | 17           | 1              | ┢            | 1                  | <del>                                     </del> | ┢            | 1.0      | -  | $\vdash$      | -  | 1     | H          | 57       | $\vdash$ | -            | $\vdash$      | -            | ╁  | -            | $\vdash$     | ┢        | H        |
|             | Г                                     | 8        | H            | 1              | t            |                    |  |              |          |  | H             | t  |       | Г          | 58       | Г        | $\vdash$     | Г             | $\vdash$     |  |              |              |          | T        |
|             |                                       | 9        | V            | 4              | _            |                    |  | Ī            | Ι.       |  | T             |  |       | _          | 59       | Τ        |              | Т             | _            | Г  | ऻ            |              |          | r        |
|             |                                       | 10       | Γ            | Г              |              |                    |  |              |          | Г  | Г             | Π  |       |            | 60       |          |              |               |              |  |              |              |          | Γ        |
|             |                                       | 11       |              |                | _            |                    | -  |              |          |  |               |  | ]     |            | 61       |          |              |               |              |  |              |              |          |          |
| i           |                                       | 12       |              |                |              |                    |  |              |          |  |               |  | ]     | 匚          | 62       |          |              |               |              |  |              |              |          | Ĺ        |
|             |                                       | 13       |              |                |              |                    |  |              |          |  |               |  |       |            | 63       |          |              |               |              |  |              |              |          | Ĺ        |
|             |                                       | 14       |              |                | Ŀ            | Ĺ                  |  |              |          | L  | Ĺ             | L  | ŀ     |            | 64       | L        |              |               |              | L  |              |              |          | Ĺ        |
|             | Ĺ                                     | 15       | Ĺ            | L              |              | $oxedsymbol{oxed}$ |  |              |          | :  | Ĺ             | L  |       | L          | 65       | _        |              | L             | L            | L_   | L            | L            | L        | L        |
|             | L                                     | 16       | Ļ            | <u> </u>       | ·            | L                  | 14   | /.           |          |  | _             | بنإ                                      |       | Ļ          | 66       | <u> </u> |              | _             | _            |  |              | Ļ            | <u>_</u> | L        |
| -           | Ŀ                                     | 17       |              |                | 4            | 10%                |  | *)**         | den      | Sarr   | ****          |  | فأناء | -          | 67       | 12       | į            | -             |              |  |              |              |          | L        |
|             | Ŀ                                     | 18       | _            | _              | <u> </u>     | - Fq               |  | 10           | •        | Ŀ  | -             |  | F -   | <u> </u>   | 68       | <u> </u> | _            | _             | <u> </u>     | ļ  | <u> </u>     | _            | _        | L        |
|             |                                       | 19       | L            |                |              | 3,                 | . 2  | ;            | . !!°    | 1  |               |  |       |            | 69       | Ļ        | $\vdash$     | <u> </u>      | <u> </u>     | <u> </u>   | $\vdash$     | ⊢            | -        | L        |
| ,           |                                       | 20       |              |                | 1            | Ų.                 | a.   | áv.          | ::       | - 1  | 75            | 19 19 19 19 19 19 19 19 19 19 19 19 19 1 | 7     | <u>:</u>   | 70       | <u> </u> | <u> </u>     | Ŀ             | L            | <u> </u>   | <u> </u>     | <u> </u>     | Ŀ        | L        |
| ا بر        | Ļ.,                                   | 21       |              | # <b>2</b>     | 100          | · 1                | 26   | 33           | 7 d      |  | <b>€</b> \$38 | 150                                      |       | _          | 71       | -        |              | <b> </b>      | _            | -  | <u> -</u>    | -            | -        | $\vdash$ |
|             | **                                    | 22       |              | , V            | 79           | 縫                  | 6.A  | 製            | W.       | · 1  | 32            | 34                                       | 3     |            | 72       | 5 ·      | (A)          | `             | -            |  | <del> </del> | ļ-           | <u> </u> | L        |
|             | *                                     | 23       | 沙图           | 02             | 34           | (A)                | 發  | *            | 2        | 建业   | 題             | 3  | 17    | 12 m       | 73<br>74 | 1        |              | •             |              |  | -            | <u> </u>     | _        | ⊦        |
|             | - ¥                                   | 24<br>25 | 日本           | 想统             | 11.00        | を                  | <b>W</b>   | 凝凝           | 逐        |  |               |  | 1     | 2.5        | 75       | 33       | 1            | 20            |              | ,  |              | -            | H        | H        |
|             | ····································· | 25<br>26 | 190          | 阿茲             | <b>松</b>     | 多                  | 魏  |              | 動        | 3  | 469<br>FE     | ****<br>***                              | 2     | 4          | 78       | <b>三</b> | 150          |               | , ,          | · .  |              | 17.5         | $\vdash$ | ۲        |
| n-          |                                       | 27,      | 編            | 整              |              |                    | 旋  |              | 数        |  | 自己的           | -  | 一     |            | 77       | 5        |              | -pc-si        | C T          | 44   | h.**         | ***          | ۳۵,۰     |          |
|             | 4                                     | 28       | 菱            | 13             | M            | 3                  | 魏  |              | 爹        | 76   | 4             | 100                                      | 4     | 14.3       | 78       | -        | ***          |               |              | ζ,   | _            | -            |          | ۲        |
| . /s.       | **                                    | 29       | 5            | *              | 尿            | 73                 |  | 100          |          | 1  | 多喜意           | 7  |       |            | 79       | 3        | ۲,           | ,,,           |              | Γ  | 7            | ٠,           |          | Г        |
|             | 43                                    | 30       | 豜            | 13             | H            | 2                  |  |              | 7        | 西  | M             |  | 鰡     | *          | 80       |          |              |               |              |  |              |              |          | Г        |
| ¥.,         | 4                                     | 31       | 1            | 9              | 題以           |                    | 恢  |              | 3        | 3  | 3             | 1  |       | Α.         | 81       | ķ.       | , .          | . 3           |              | ١  | . 😘          |              |          | Γ        |
| 3           | <b>.</b>                              | 32       | 4            | 33             | 35           | 毯                  | 83   | *            | *        |  | 数张数           | 17                                       | 1     | Ţ          | 82       | $^{M}$   | 7            |               |              |  |              |              |          | Ŀ        |
| 4           |                                       | 33       | 1            | 鰀              | X,           | *                  | 鮅  | 7            | 實        |  | 9             | 14                                       | 146   |            | 83       | ,.       | 12           |               |              |  |              |              |          | Ĺ        |
|             | ٠.                                    | 3        | 45           | 'n             | 3            | X                  | 磝  | 擹            | 3        | 賽  | K             | 35%                                      |       |            | 8        |          |              |               |              |  |              |              | L        | L        |
| -           | 14                                    | 35       | **           | ě              | 3            | 3                  | *  | 蠘            | 8        | 路  | 9             | id<br>V                                  | W.    | _          | 85       |          |              |               |              |  | L            |              | L        | L        |
| s           | -                                     | 36       | *            | ž              | r.H          | *                  | 爨  | 辨            | *        | Ž.   | 医兔鼠           | W.                                       | 4.A   | ě.         | 86       | • • •    | 1.           | ٠١.           |              | <u> </u>   | <u> </u>     | _            | <u> </u> | -        |
|             |                                       | 37<br>38 | 3            | *              | 13           | 3%                 | Ä.   | *            | 奖        | 1  | 32            | 7  | 2     | $\vdash$   | 87       | H        | Щ            |               | <u> </u>     | ├-   | <u> </u>     |              | <u> </u> | <u> </u> |
|             | ý                                     |          | N.           | *              | 170          | $\overline{L}$     | 1  | 7            | <u> </u> |  |               | *  |       | -          | 88       | H        | Ľ            | _             | Ŀ            | H  | $\vdash$     | $\vdash$     | $\vdash$ | -        |
|             | 33                                    | 39       | 3            | 3 %            | 1            | 10                 | 7.1<br>7.1                                       | ÷            | _        | *  | 1.7           |  |       | ┝          | 89       | $\vdash$ | $\vdash$     | _             | $\vdash$     | $\vdash$   | _            | $\vdash$     | Н        | H        |
| (1)         | <b>禁</b>                              | 40       | <b>3</b> .   |                | <u> </u>     |                    |  | 4            |          | ÷  |               |  |       | <u> </u>   | 90       | -        | Н            |               | <u> </u>     | -  |              | -            | ۰.       | $\vdash$ |
|             | 38                                    | 4        |              | $\sim$         | -            | 4                  | -  |              | Ļ        |  | ,             |  |       | Ŀ          | 91       | <u> </u> | Щ            |               | <u> </u>     | Ŀ  | $\vdash$     | <u> </u>     | $\vdash$ | L        |
| •           | -                                     | 42       |              |                | ·            | Ľ                  |  | <u> </u>     |          | $\vdash$   | Ŀ             | <u> </u>                                 |       | <u> </u>   | 92       | <u> </u> | $\vdash$     |               | Ŀ            | $\vdash$   | _            | $\vdash$     | $\vdash$ | -        |
| 13          | ÷                                     | 43       |              |                | -            | $\vdash$           | <u> </u>   | H            | L        | 1.   | H             | <u> </u>                                 |       | $\vdash$   | 93       |          |              |               | <u> </u>     | -  | _            | $\vdash$     | $\vdash$ | $\vdash$ |
|             | H                                     | 44<br>45 | -            | $\vdash$       | -            | $\vdash$           | <del>                                     </del> | ŀ-           | -        | -  | ŀ-            | -  | ľ     | ⊢          | 94<br>95 |          |              | _             |              | -  |              | <del> </del> | -        | -        |
|             | -                                     | 46       | H            | -              | $\vdash$     | H                  | -  | ├            | $\vdash$ | 1  | $\vdash$      | $\vdash$                                 |       |            | 96       | H        | -            |               |              | $\vdash$   |              | -            |          | -        |
|             | <u>-</u> -                            | 47       | H            | <del>i -</del> | <del> </del> | ⊢                  | -  | <del> </del> | -        | ┝-   | <del> </del>  | ⊢  | ŀ     | <u>'</u> - | 97       | -        | -            | -             | <del> </del> | <del>                                     </del> |              |              | ;        | ۱        |
|             | 100                                   | 48       | <del> </del> | +              | H            | $\vdash$           | Н  | $\vdash$     | ╁        | $\vdash$   | -             | ┪  |       | $\vdash$   | 98       | ┝        | -            | <del></del>   | $\vdash$     | Ι  | $\vdash$     | <del> </del> | $\vdash$ | H        |
|             | H                                     | 49       |              | $\vdash$       | ╁╌           |                    | <del> </del>                                     | <del> </del> | $\vdash$ | <del>                                     </del> | $\vdash$      | $\vdash$                                 | l     | -          | 99       | ┢        | _            | _             | <del> </del> |  | -            | $\vdash$     | $\vdash$ | H        |
| , 20 c.<br> |                                       | 50       |              | Ţ              |              |                    |  |              |          |  |               |  | ١.    |            | 100      |          |              |               |              |  | Ľ            |              |          |          |
|             |                                       |          |              | •              | ,            | 1                  |  |              |          |  |               |  |       |            |          |          |              |               |              |  |              |              |          |          |
| 22          | c i                                   |          |              |                |              |                    | ٠.   |              |          | •  | ٠.            |  |       |            |          |          |              |               |              |  |              |              |          |          |

| Cla      | aim        |          |          |                 |          | Da       | te       |               |              |          |              | J  |
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|          | 101        | ┝        | -        |                 | ├        | -        | ┝        | -             | ┢            |          | ⊢            | ł  |
|          | 103        |          | ┢        | <del> -</del> - | ┢        | -        | -        |               | ┢            | -        |              | l  |
|          | 104        |          |          | $\vdash$        | ┢        | $\vdash$ | $\vdash$ | -             | ├            | ┢        | <del> </del> | ł  |
|          | 105        |          |          |                 | Т        |          |          |               | $\vdash$     |          |              | 1  |
|          | 106        |          |          |                 |          |          |          |               |              |          |              | 1  |
|          | 107        |          |          |                 |          |          |          |               |              |          |              |    |
|          | 108        |          |          |                 |          |          |          |               |              | L        |              | l  |
|          | 109        | L        | _        | _               | ļ        | _        | L_       |               |              | _        | _            | ı  |
|          | 110        | <u> </u> | _        | _               | _        |          |          | _             |              | L        | <u> </u>     | ļ  |
|          | 111        | <u> </u> | <u> </u> | _               | _        |          |          | _             | -            | L        | <u> </u>     | ł  |
|          | 112        | ŀ        | ⊢        | -               | -        | -        | <u> </u> | _             |              | ├-       | ⊢            | l  |
| <u> </u> | 113        | $\vdash$ | $\vdash$ | $\vdash$        | $\vdash$ | -        | -        | $\vdash$      | $\vdash$     | $\vdash$ | -            | l  |
|          | 114<br>115 | -        | -        | $\vdash$        | $\vdash$ | H        | H        | ┝             | H            | -        | $\vdash$     | ١  |
| -        | 116        |          |          | H               | -        | H        | $\vdash$ | H             |              | H        | H            | l  |
|          | 117        | 7.       | H        | <u> </u>        | ┢╾       | ┢        | H        | H             |              |          | Г            | ١  |
| -        | 118        |          |          | Г               | _        | _        |          |               |              |          |              | l  |
|          | 119        |          |          | Г               |          | Г        |          |               |              |          |              |    |
|          | 120        |          |          |                 |          |          | -        |               | -            |          |              | l  |
| . ",     | 121        | ٦.       | Г        |                 |          |          |          |               | -            |          | ં :          | l  |
|          | 122        |          |          |                 |          | 1.       |          |               | 4            | 7        |              | l  |
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|          | 124        |          | 4        |                 | ٠.       | ,        |          |               |              |          | <u>)</u>     |    |
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| 29.0     | 126        |          |          | Ŀ               | _        |          |          | 3             | 4            |          | 4            | l  |
|          | 127<br>128 |          | -        | H               | -        | Ë        | -        | Ŀ             |              | *        |              | ľ  |
|          | 129        |          |          | -               | ┝        | ÷        |          | _             | -            | -        |              | l  |
|          | 130        |          |          | Н               | $\vdash$ | Н        | Н        | Н             | H            |          | 11.          | ŀ  |
|          | 131        | _        |          |                 | ÷        |          | -        | -             | -            |          | -            | l  |
|          | 132        |          |          | _               |          |          | -        | $\overline{}$ | Н            |          | ŕ            | l  |
| _        | 133        | _        | Ť        |                 |          |          |          |               |              |          |              | I. |
|          | 134        |          | ŀ        |                 |          |          |          |               |              |          | · .          | ŀ  |
|          | 135        |          |          |                 |          |          |          |               |              |          |              | ı  |
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|          | 137        |          | _        | _               |          |          | _        |               |              | _        | Ŀ            | l  |
| _        | 138        | _        | _        | _               | _        |          |          | Ľ             | $oxed{oxed}$ |          |              | ľ  |
|          | 139        |          | <u> </u> | _               | $\vdash$ | -        | _        | _             | Ŀ            | _        | -            | l  |
| _        | 140        | _        | ⊢        | _               | _        |          |          |               | $\vdash$     |          | L            | ŀ  |
| _        | 141        | _        | Ŀ        | _               | H        | Н        | $\vdash$ |               | <u> </u>     | _        | L            | l  |
|          | 142<br>143 | $\vdash$ | $\vdash$ | Н               | H        | Н        | $\vdash$ |               | Н            | Н        | $\vdash$     | ١  |
|          | 144        | _        | $\vdash$ | -               |          | $\vdash$ | $\vdash$ | Н             | $\vdash$     |          | -            | ١  |
|          | 145        |          |          | -               | $\vdash$ | $\vdash$ | H        | H             | -            | Н        | $\vdash$     | ١  |
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| - :      | 146<br>147 | <b>-</b> |          |                 |          | L        |          | L<br>         | <br>         | ۱<br>ا   | <br>         | i  |
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